

April 7, 2005

Mr. Floyd Wiggins
1370 Airport Boulevard
Santa Rosa, CA 95403

**Re: Quarterly Groundwater Monitoring and Sampling Report – First Quarter 2005,
Wiggins Property, 3454 Santa Rosa Avenue, Santa Rosa, California, SCDHS-EHD
Site # 00001849, NCRWQCB Site # 1TSR007**

Dear Mr. Wiggins:

This report presents the results of groundwater monitoring and sampling activities performed on March 2, 2005, at 3454 Santa Rosa Avenue (site), Santa Rosa, California (Figures 1 and 2). Winzler & Kelly Consulting Engineers (Winzler & Kelly) performed the work in accordance with the Sonoma County Department of Health Services, Environmental Health Division's (SCDHS-EHD's) February 7, 2005 letter, which requested quarterly monitoring and sampling of monitoring wells MW-5 through MW-9, MW-11, and MW-12, as well as sampling of domestic wells located in the vicinity of the site.

GROUNDWATER MONITORING AND SAMPLING ACTIVITIES

The Site-Specific Sampling Procedures, provided in Appendix A, describe in detail all of the monitoring and sampling activities that were performed at the site on March 2, 2005. A brief summary of these activities is also provided below.

- Personnel Present:*** Winzler & Kelly's technicians, Pon Xayasaeng and Brian Bacciarini, performed the groundwater monitoring and sampling activities.
- Free-Product Monitoring:*** Prior to sampling activities, monitoring well MW-10 was evaluated for the presence of free product (petroleum hydrocarbons) using an oil/water interface probe. Additionally, a clear plastic bailer was used to visually confirm the presence of free product.
- Depth-to-Water:*** An electronic water level meter was used to measure the depth-to-groundwater (DTW) in each monitoring well after allowing the groundwater in each well to equilibrate to atmospheric pressure for approximately 30 minutes. Due to the presence of free product in monitoring well MW-10, DTW and depth-to-product (DTP) was measured using an oil/water interface probe. DTW was measured to be 3.54 feet below ground surface (bgs) and DTP was measured to be at 3.52 feet bgs.



Mr. Floyd Wiggins
April 7, 2005
Page 2

Dissolved Oxygen:

Following DTW measurements, a calibrated dissolved oxygen (DO) meter was used to measure the concentrations of DO in monitoring wells MW-5 through MW-9, MW-11, and MW-12.

Purging:

An electronic 12-volt submersible pump was used to purge each of the monitoring wells sampled until the indicator parameters of pH, conductivity, and temperature had stabilized. Monitoring well MW-10 was not purged or sampled because of the presence of free product.

The domestic wells were purged by running the tap closest to the well system's pressure tank until the well pump switched on.

Monitoring Well Sampling:

Groundwater samples were collected from monitoring wells MW-5, MW-9, MW-11, and MW-12. New disposable bailers were used to collect and transfer the groundwater samples from each monitoring well into the appropriate, laboratory-supplied, certified clean sample containers.

Domestic Well Sampling:

Groundwater samples were collected from the domestic wells located at 3415 (DW-3415), 3450 (DW-3450), 3455 (DW-3455), and 3521 (DW-3521) Santa Rosa Avenue.

Chemical Analysis:

Analytical Sciences Laboratory (Analytical Sciences) of Petaluma, California (a California-certified laboratory) analyzed each of the groundwater samples collected from the monitoring wells for total petroleum hydrocarbons as gasoline (TPH-G), as diesel (TPH-D), and as motor oil (TPH-MO) by EPA Method 8015M, for benzene, toluene, ethyl benzene, and total xylenes (BTEX), oxygenated fuel additives, and lead scavengers by EPA Method 8260B, and for total oil and grease (TOG) by EPA Method 418.1M.

Analytical Sciences analyzed each of the groundwater samples collected from the domestic wells for TPH-G by EPA Method 8015M and for BTEX, oxygenated fuel additives, and lead scavengers by EPA Method 8260B.

Groundwater Monitoring and Sampling Results – March 2, 2005

The groundwater elevation data and the direction and gradient of groundwater flow at the site are summarized in Tables 1 and 2, respectively. A groundwater contour map, provided as Figure 3, illustrates the groundwater elevation contours and flow direction at the site on March 2, 2005. As Figure 3 shows, the groundwater flow direction at the site was toward the southwest at an approximate gradient of 0.02 ft/ft. The groundwater elevation has risen to the seasonal high level, up



Mr. Floyd Wiggins

April 7, 2005

Page 3

from the previous monitoring and sampling event on July 29, 2004, by approximately 5.5 feet to 7.7 feet.

During purging activities, the parameters of pH, conductivity, temperature, and oxidation-reduction potential were monitored in the groundwater extracted from the wells. A summary of these indicator parameters is provided in Table 3. In addition to monitoring the indicator parameters, an oil/water interface probe was used to measure MW-10 for the presence of free product. Approximately 0.02 feet of free product was measured in monitoring well MW-10. This measured free product has decreased since the last monitoring event in July 2004 at 0.15 feet. A measurable quantity of free product was not detected in any of the other monitoring wells that were sampled.

The laboratory analysis of the groundwater samples collected from monitoring wells MW-11 and MW-12 and domestic wells did not quantify any petroleum-related constituents above the laboratory's reportable detection limits (RDLs). Additionally, TOG was not quantified above the laboratory's RDL in all the wells sampled. Only the groundwater samples collected from monitoring wells MW-5 and MW-9 contained petroleum-related constituents above the laboratory's RDLs.

The analytical results of the groundwater samples are summarized in Table 4. Figure 4 depicts the concentrations of TPH-G, benzene, EDC, and methyl-tert butyl ether (MTBE) in the groundwater samples collected from the monitoring wells on March 2, 2005.

The laboratory QA/QC included the use of method blanks to exclude false-positive analyses and the use of laboratory control samples to evaluate the percentage recovery of known analyte spikes. The recovery percentages for all of the sample analytes were within acceptable ranges. The complete laboratory reports, QA/QC data, and the chain-of-custody form are included in Appendix B.

GeoTracker Data Entry

As required by Assembly Bill AB2886, Winzler & Kelly has submitted the EDF report for the second and third quarter 2004 monitoring events and the groundwater well measurement file for the March 2, 2005 monitoring event to the GeoTracker database. An upload verification form is included in Appendix C. Winzler & Kelly will submit the analytical data to the GeoTracker database upon receipt of the EDF report from Analytical Sciences.

Recommendations

Winzler & Kelly recommends the continuation of quarterly groundwater monitoring and sampling at the site. The next monitoring and sampling event is schedule for June 2, 2005.


Site Update

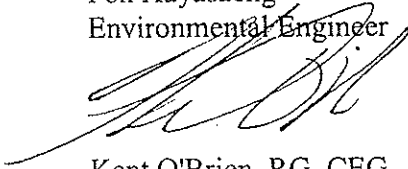
Winzler & Kelly has submitted the Remedial Action Plan (RAP) and System Design report and the Free Product Removal report in March 2005. A remedial system comprising of ozone injection is planned to be installed during the second quarter of 2005.

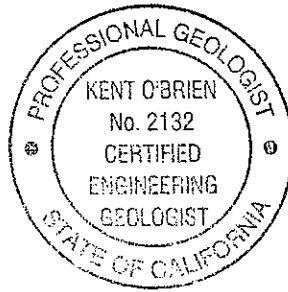
Mr. Floyd Wiggins
April 7, 2005
Page 4

Should you have any questions or comments regarding this project, please contact David J. Vossler, Project Manager, at (707) 523-1010.

Sincerely,
WINZLER & KELLY


Pon Xayasaeng
Environmental Engineer


Kent O'Brien, RG, CEG
Senior Project Geologist



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Attachments:

Figures:

- Figure 1 – Location Map
- Figure 2 – Site Map
- Figure 3 – Groundwater Contour Map
- Figure 4 – Petroleum Hydrocarbons in Groundwater

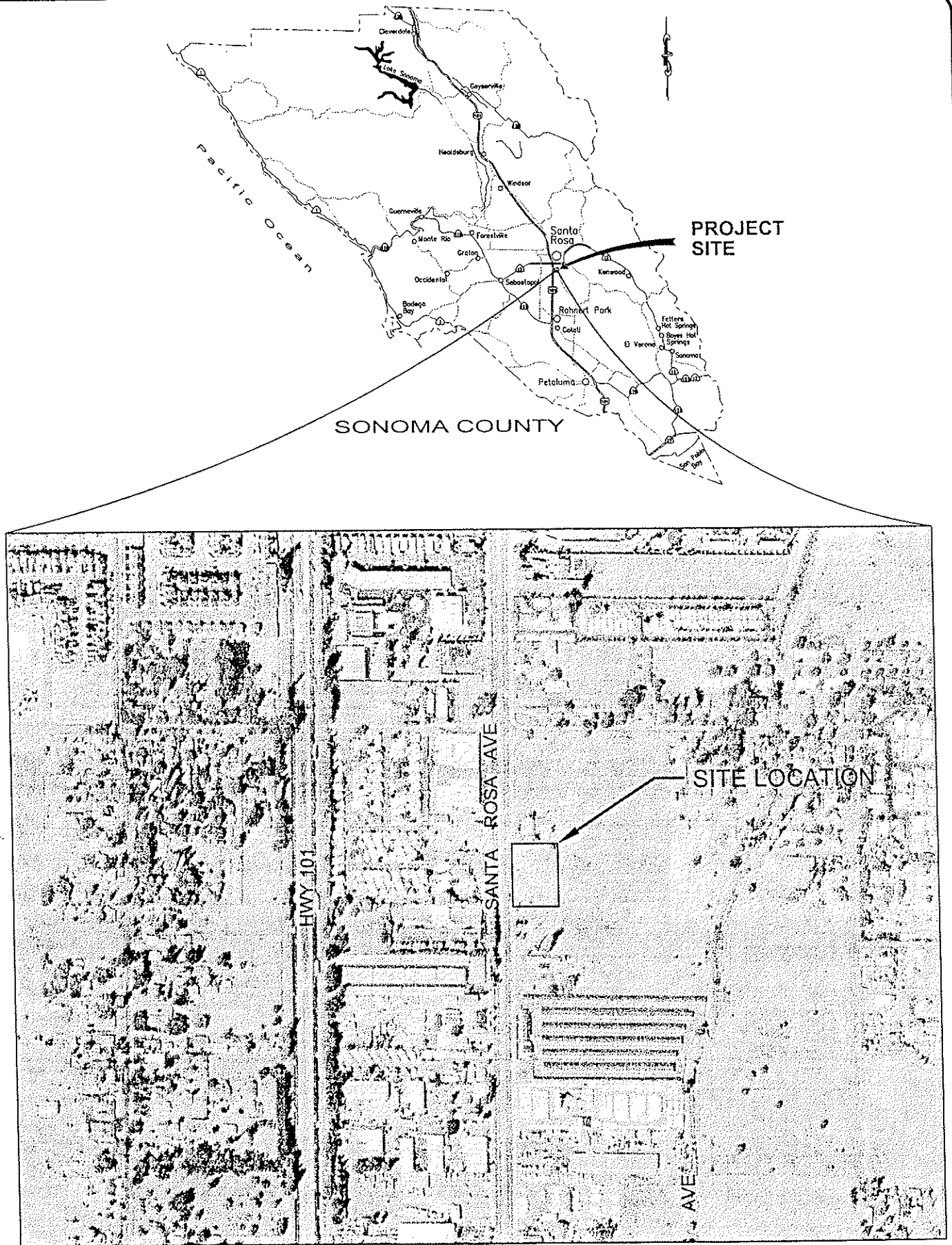
Tables:

- Table 1 – Water Level Data
- Table 2 – Groundwater Gradient and Flow Direction
- Table 3 – Indicator Parameters
- Table 4 – Analytical Results of Groundwater Samples

Appendices:

- Appendix A – Site-Specific Sampling Procedures
- Appendix B – Analytical Laboratory Report
- Appendix C – GeoTracker Upload Verifications

- c: Mr. Cliff Ives, Sonoma County Department of Health Services, Environmental Health Division, 475 Aviation Blvd, Suite 220, Santa Rosa, CA 95403
- Mr. Scott Steever, Lanahan & Reilley, 3558 Round Barn Blvd, Suite 300, Santa Rosa, CA 95403



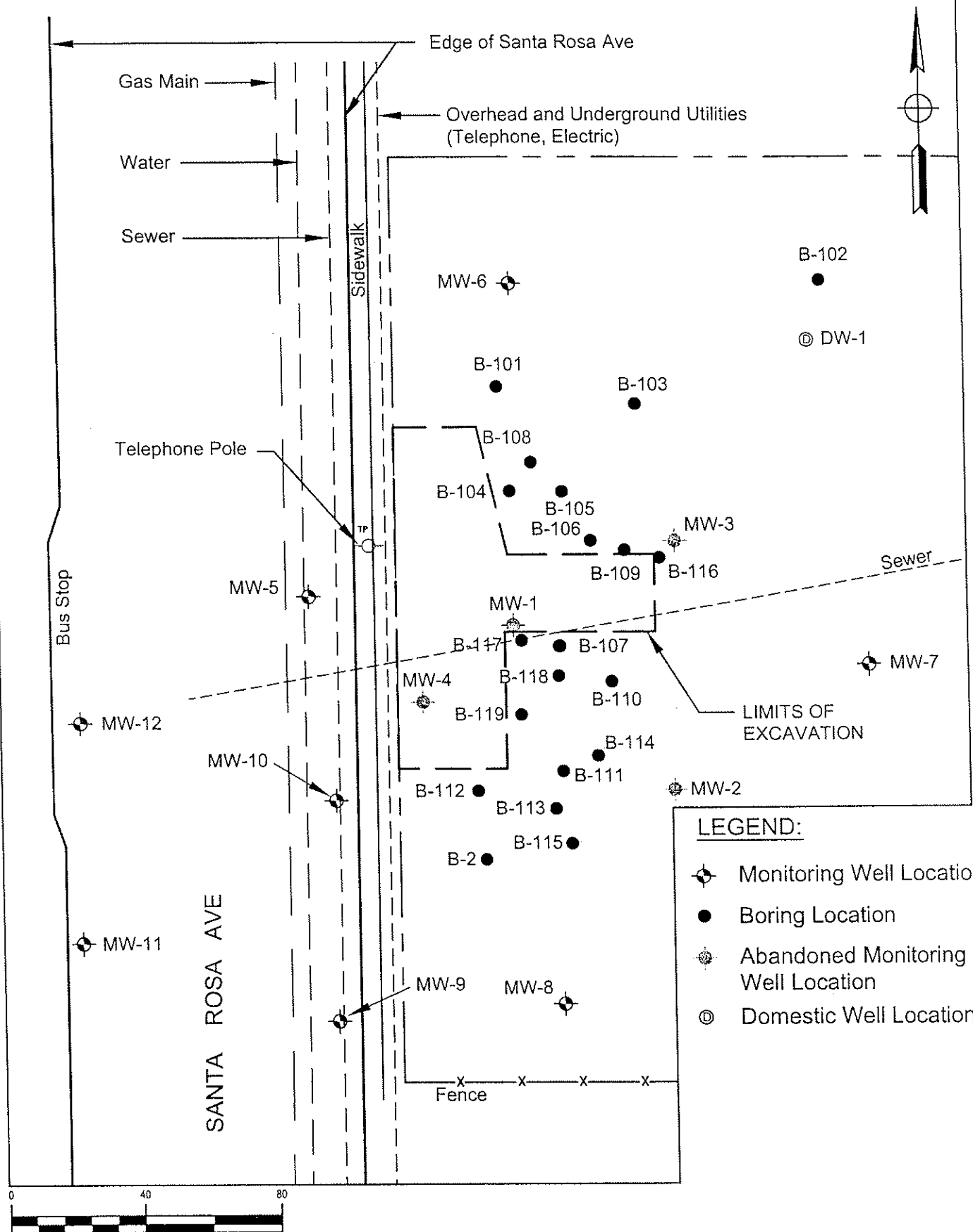
WIGGINS PROPERTY
3454 Santa Rosa Ave
Santa Rosa, California

LOCATION MAP
FIGURE 1



WINZLER & KELLY
CONSULTING ENGINEERS

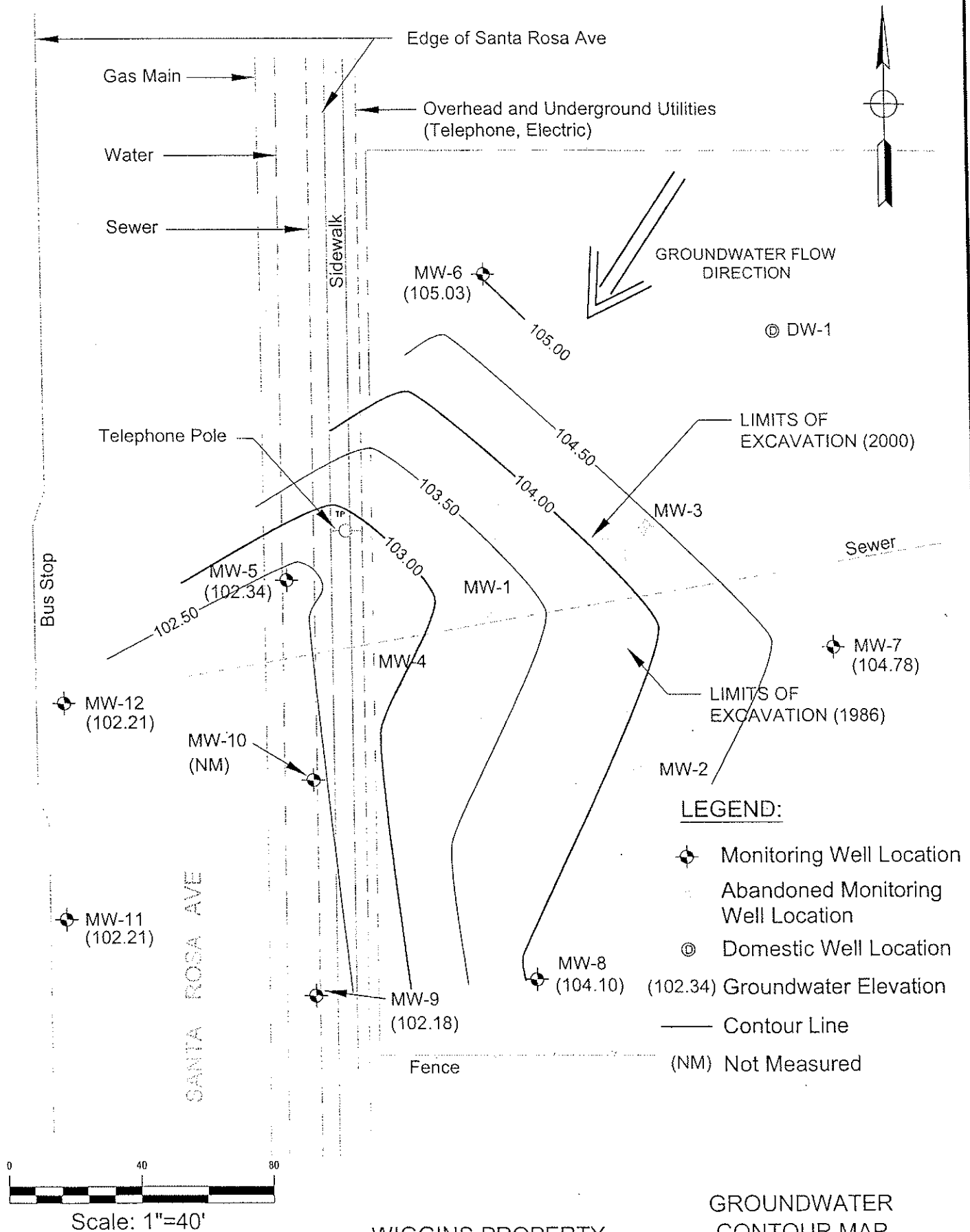
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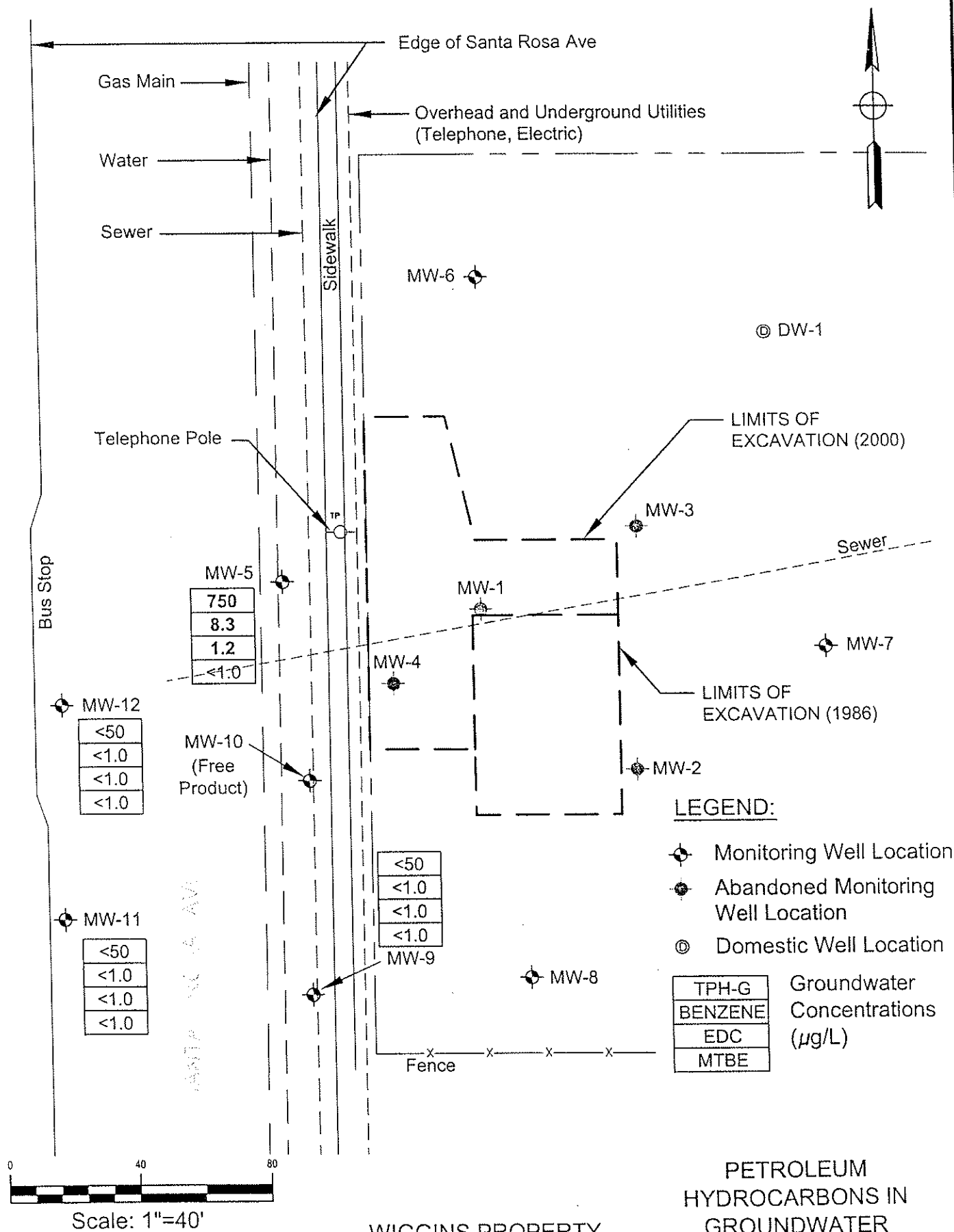
WIGGINS PROPERTY
3454 Santa Rosa Ave
Santa Rosa, California

SITE MAP
FIGURE 2

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WIGGINS PROPERTY
3454 Santa Rosa Ave
Santa Rosa, California

PETROLEUM
HYDROCARBONS IN
GROUNDWATER
March 2, 2005
FIGURE 4

WINZLER & KELLY
CONSULTING ENGINEERS

Table 1. Water Level Data
Wiggins Property
3454 Santa Rosa Avenue, Santa Rosa, CA

Well ID	Date	Groundwater Elevation	Depth-to-Water	Top of Casing	Free Product Thickness	Screen Interval	Sand Pack Interval	Bentonite/Grout Interval
		MSL	feet bgs		feet			
MW-1 THROUGH MW-4 HAVE BEEN ABANDONED								
MW-5	04/29/04	99.64	6.25	105.89	---	5'-20'	4'-21.5'	0'-4'
	07/29/04	96.64	9.25		---			
	03/02/05	102.34	3.55		---			
MW-6	04/29/04	100.72	5.76	106.48	---	5'-20'	4'-21.5'	0'-4'
	07/29/04	97.57	8.91		---			
	03/02/05	105.03	1.45		---			
MW-7	04/29/04	100.55	5.73	106.28	---	5'-20'	6'-21.0'	0'-6'
	07/29/04	97.05	9.23		---			
	03/02/05	104.78	1.50		---			
MW-8	04/29/04	99.81	6.53	106.34	---	5'-20'	4'-21.0'	0'-4'
	07/29/04	96.56	9.78		---			
	03/02/05	104.10	2.24		---			
MW-9	04/29/04	99.67	6.07	105.74	---	10'-20' 5'-20'	4'-20'	0'-4'
	07/29/04	96.57	9.17		---			
	03/02/05	102.18	3.56		---			
MW-10	04/29/04	---	---	105.86	0.05	10'-20' 5-	4'-20'	0'-4'
	07/29/04	---	---		0.15			
	03/02/05	---	---		0.02			
MW-11	04/29/04	99.59	6.11	105.70	---	10'-20' 5'	4'-20'	0'-4'
	07/29/04	96.60	9.10		---			
	03/02/05	102.21	3.49		---			
MW-12	04/29/04	99.57	6.26	105.83	---	10'-20' 5'	4'-20'	0'-4'
	07/29/04	96.59	9.24		---			
	03/02/05	102.21	3.62		---			

Abbreviations:

MSL = Mean Sea Level

bgs = Below Ground Surface

--- = Not Measured

^a = Free Product Not Present

^b = Free Product Present

Table 2. Groundwater Gradient and Flow Direction

Wiggins Property
3454 Santa Rosa Ave, Santa Rosa, CA

Date	Groundwater Gradient (ft/ft)	Flow Direction	Wells Used for Calculating Gradient and Flow Direction
04/29/04	0.01	Southwest	MW-5, MW-6, MW-7, MW-8, MW-9, MW-10, MW-11, MW-12
07/29/04	0.01	Southwest	MW-5, MW-6, MW-7, MW-8, MW-9, MW-10, MW-11, MW-12
03/02/05	0.02	Southwest	MW-5, MW-6, MW-7, MW-8, MW-9, MW-11, MW-12

Table 3. Indicator Parameters
Wiggins Property
3454 Santa Rosa Avenue, Santa Rosa, CA

Well ID	Sample Date	pH	Temperature (°F)	Conductivity (uS/cm)	ORP (mV)	DO (mg/L)
MW-1 THROUGH MW-4 HAVE BEEN ABANDONED						
MW-5	04/29/04	6.63	67.3	1317	-38	NM
	07/29/04	6.52	68.9	1265	-101	NM
	03/02/05	6.65	67.6	1416	-14	0.66
MW-6	04/29/04	6.42	67.8	778	180	NM
	07/29/04	--	--	--	--	NM
	03/02/05	--	--	--	--	0.70
MW-7	04/29/04	6.67	61.7	780	215	NM
	07/29/04	--	--	--	--	3.45
MW-8	04/29/04	6.36	59.7	332	-51	NM
	07/29/04	--	--	--	--	NM
	03/02/05	--	--	--	--	3.05
MW-9	04/29/04	6.81	66.2	443	186	NM
	07/29/04	6.76	66.7	721	199	NM
	03/02/05	6.76	65.3	939	285	1.69
MW-10	04/29/04	--	--	--	--	NM
	07/29/04	--	--	--	--	NM
	03/02/05	--	--	--	--	NM
MW-11	04/29/04	6.84	67.5	867	155	NM
	07/29/04	6.74	67.5	759	194	NM
	03/02/05	6.81	67.5	862	233	0.34
MW-12	04/29/04	6.98	69.6	849	142	NM
	07/29/04	6.85	68.0	881	188	NM
	03/02/05	6.90	68.0	817	229	0.76

Abbreviations:

°F = degrees Fahrenheit
uS/cm = microSiemens per centimeter
ORP = Oxidation Reduction Potential
mV = milliVolts
DO = Dissolved Oxygen
mg/L = milligrams per liter
NM = Not Measured
-- = Not Sampled

Table 4. Analytical Results of Groundwater Samples

Wiggins Property
3454 Santa Rosa Avenue, Santa Rosa, CA

Well ID	Date Sampled	TPH-G	TPH-D	TPH-MO	B	T	E	X	EDB	EDC	TBA	MTBE	DIPE	ETBE	TAME	TOG
ug/L																mg/L
MW-1 through MW-4 have been abandoned.																
MW-5	04/29/04	870	57 *	<200	<1.0	<1.0	<1.0	<1.0	<1.0	1.7	<25	<1.0	<1.0	<1.0	<1.0	---
	07/29/04	1,100	95 *	<200	4.8	<1.0	3.7	1.6	<1.0	1.8	<25	<1.0	<1.0	<1.0	<1.0	---
	03/02/05	750	<50	<200	8.3	1.7	6.6	26	<1.0	1.2	46	<1.0	<1.0	<1.0	<1.0	<1.0 ^b
MW-6	04/29/04	<50	<50	<200	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<1.0	---
	07/29/04	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	03/02/05	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MW-7	04/29/04	<50	<50	<200	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<1.0	---
	07/29/04	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	03/02/05	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MW-8	04/29/04	<50	<50	<200	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<1.0	---
	07/29/04	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	03/02/05	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MW-9	04/29/04	<50	<50	<200	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<1.0	---
	07/29/04	<50	<50	<200	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<1.0	---
	03/02/05	<50	<50	<200	<1.0	5.5	2.0	9.8	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<1.0	<1.0
MW-10	04/29/04	Approximately 0.05 feet of free product present.														
	07/29/04	Approximately 0.15 feet of free product present.														
	03/02/05	Approximately 0.02 feet of free product present.														
MW-11	04/29/04	<50	<50	<200	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<1.0	---
	07/29/04	<50	<50	<200	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<1.0	---
	03/02/05	<50	<50	<200	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<1.0	<1.0
MW-12	04/29/04	<50	<50	<200	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<1.0	---
	07/29/04	<50	<50	<200	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<1.0	---
	03/02/05	<50	<50	<200	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<1.0	<1.0
DW-3415	04/29/04	<50	---	---	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<1.0	---
	07/29/04	<50	---	---	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<1.0	---
	03/02/05	<50	---	---	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<1.0	---
DW-3455	04/29/04	<50	---	---	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<1.0	---
	07/29/04	<50	---	---	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<1.0	---
	03/02/05	<50	---	---	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<1.0	---
DW-3450	05/06/04	<50	---	---	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<1.0	---
	07/29/04	<50	---	---	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<1.0	---
	03/02/05	<50	---	---	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<1.0	---
DW-3521	05/06/04	<50	---	---	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<1.0	---
	07/29/04	<50	---	---	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<1.0	---
	03/02/05	<50	---	---	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<1.0	---

Notes:

- a = The chromatogram does not exhibit a chromatographic pattern characteristic of diesel. Higher boiling point constituents of weathered gasoline are present.
- b = The laboratory's reportable detection limit was increased slightly due to limited sample volume.
- = Not analyzed
- <50 = Analyte not detected at indicated detection limit.

Abbreviations:

TPH-G = Total petroleum hydrocarbons as gasoline
 TPH-D = Total petroleum hydrocarbons as diesel
 TPH-MO = Total petroleum hydrocarbons as motor oil
 B = Benzene
 T = Toluene
 E = Ethyl benzene
 X = Total xylenes
 EDB = 1,2-dibromoethane
 EDC = 1,2-dichloroethane

MTBE = Methyl tert-butyl ether
 TBA = Tert-butyl alcohol
 DIPE = Di-isopropyl ether
 ETBE = Ethyl tert-butyl ether
 TAME = Tert-amyl methyl ether
 TOG = Total Oil & Grease
 mg/L = milligrams per liter
 ug/L = micrograms per liter

Analytical Methods:

418.1M = EPA Method for TOG
 5030/8015M = EPA Method for TPH-G
 3510/8015M = EPA Method for TPH-D & TPH-MO
 8260B = EPA Method for BTEX, oxygenates, and lead scavengers

Appendix A

Site-Specific Sampling Procedures

WINZLER & KELLY CONSULTING ENGINEERS

Site-Specific Groundwater Sampling Procedures Wiggins Property 3454 Santa Rosa Avenue Santa Rosa, California March 2, 2005

1. Objective

Collect representative water level data and groundwater samples.

2. Background

Based on the analytical results of the previous sampling, field work proceeded from the monitoring wells in which the samples collected had the lowest concentrations of constituents to the wells that had the highest concentrations of constituents.

Water levels were measured to determine the direction and gradient of groundwater flow. Representative groundwater samples from the water-bearing zone were obtained using disposable polyethylene bailers following purging.

3. Personnel Required and Responsibilities

Winzler & Kelly Technicians: Pon Xayasaeng and Brian Bacciarini performed groundwater monitoring and sampling activities in accordance with the procedures outlined below.

4. Procedures

4a. Decontamination Procedures

- The wash and rinse buckets, the ES-60 purger pump, and the water level meter were decontaminated using alconox soap and potable water.
- The pump and water level meter were decontaminated following use in each well.
- Nitrile gloves were worn by the sampler at all times and changed after handling equipment and instruments.

4b. Calibration Procedures

- The Ultrameter was calibrated for conductivity and pH. Temperature calibration is not necessary in the Ultrameter.
- Conductivity was calibrated using KCl-7000 standard solution within its expiration date.
- The calibration for pH included “zeroing” the Ultrameter with a pH 7 buffer solution followed by adjusting the gain with acid and base buffers (4.01 and 10.00).

4c. Groundwater Elevations

- All monitoring wells were opened and expandable caps removed.
- Each well was allowed to equilibrate to atmospheric pressure.
- An electronic water level meter was used to measure the depth-to-groundwater in each monitoring well.
- An oil/water interface meter and a flapper valve were used to measure the amount of free product present in monitoring well MW-10.
- The depth, time, and visual observations regarding well access, condition, security, etc., were recorded on a Water Level Data Sheet.

4d. DO Concentrations

- The membrane on the YSI Model 55 DO meter was checked for the presence of bubbles and wrinkles, neither of which was observed.
- The meter was calibrated in the field prior to collecting measurements.
- Using the calibrated YSI Model 55 DO Meter, DO concentrations were measured in each monitoring well except for all the wells except for MW-10.

4e. Purging

- The volume of standing water in each monitoring well was calculated using the diameter of the well, the measured depth-to-water and the depth-to-bottom. The volume was recorded on the Well Sampling Data Sheet for each well.
- Monitoring well MW-10 was not sampled due to the presence of free product.
- All other wells were purged using an ES-60 purger pump attached to 40-feet of plastic tubing.
- Domestic wells were purged by running the tap closest to the well until the well pump switched on.
- During purging of monitoring wells, the parameters of conductivity, pH, temperature, and oxidation-reduction potential were monitored using the Ultrameter at each well casing interval. Visual observations of color/odor/turbidity were also monitored.
- The time, readings, and visual comments were recorded on the Well Sampling Data Sheet.
- Each monitoring well was purged a minimum of three casing volumes, or until the indicator parameters stabilized.
- Purge and decontamination water was transferred to 55-gallon drums labeled and stored on site.

4f. Groundwater Sample Collection

- Groundwater samples were collected by lowering previously unused, disposable, polyethylene, bottom-filling bailers into the well.
- When completely full, the bailer was carefully retracted from the well casing.
- The water was transferred from the bailer to the appropriate certified clean sampling containers.
- Each VOA was immediately capped. The vial was checked for air bubbles by inverting and gently tapping. If any bubbles were visible, a new vial was filled and confirmed to be free of any air bubbles.

- All samples were labeled with the following information:

Sample ID	Date and Time Sample Collected
Location	Sampler's Initials
Project Number	
- Sample information was documented on a Chain-of-Custody form.
- All samples were placed in an ice chest chilled with ice.
- Upon completion of the sampling activities, each well was closed and secured by replacing the well cap and lock.

5. **Equipment Used:**

- Disposable gloves
- Potable water
- Alconox soap
- Containers to hold rinsate water
- Scrub Brushes
- Tools to open wells
- Keys to wells
- Water Level Data Form/pencil
- Well Sampling Data Sheet
- Groundwater Sampling Log form
- Water level meter
- 12-volt DC 1.5-inch electric submersible pump
- UltraMeter
- Containers to hold extracted water (as required)
- Disposable bailers (previously unused)
- Monofilament nylon line (50-lb test)
- Scissors
- Laboratory supplied sample containers (preserved, as required)
- Sample labels
- Ice chest
- Ice
- Labels/indelible marker
- Trash bags
- 55-gallon drums
- Ziploc bags
- Portable 12-V battery

Appendix B

Analytical Laboratory Report



Analytical Sciences

Report Date: March 18, 2005

Pon Xayasaeng
Winzler & Kelly Consulting Engineers
495 Tesconi Circle, Suite 9
Santa Rosa, CA 95401-4696

LABORATORY REPORT

Project Name: **Wiggins** **04259801.001**

Lab Project Number: **5030206**

This 17 page report of analytical data has been reviewed and approved for release.

Mark A. Valentini, Ph.D.
Laboratory Director



TPH Gasoline in Water

Lab #	Sample ID	Analysis	Result (ug/L)	RDL (ug/L)
28598	DW-3415	TPH/Gasoline	ND	50

Date Sampled: 03/02/05	Date Analyzed: 03/03/05	QC Batch #: 5350
Date Received: 03/02/05	Method: EPA 5030/8015M	

Lab #	Sample ID	Analysis	Result (ug/L)	RDL (ug/L)
28599	DW-3455	TPH/Gasoline	ND	50

Date Sampled: 03/02/05	Date Analyzed: 03/03/05	QC Batch #: 5350
Date Received: 03/02/05	Method: EPA 5030/8015M	

Lab #	Sample ID	Analysis	Result (ug/L)	RDL (ug/L)
28600	DW-3521	TPH/Gasoline	ND	50

Date Sampled: 03/02/05	Date Analyzed: 03/03/05	QC Batch #: 5350
Date Received: 03/02/05	Method: EPA 5030/8015M	

Lab #	Sample ID	Analysis	Result (ug/L)	RDL (ug/L)
28601	DW-3450	TPH/Gasoline	ND	50

Date Sampled: 03/02/05	Date Analyzed: 03/03/05	QC Batch #: 5350
Date Received: 03/02/05	Method: EPA 5030/8015M	



Lab #	Sample ID	Analysis	Result (ug/L)	RDL (ug/L)
28602	MW-12	TPH/Gasoline	ND	50

Date Sampled: 03/02/05	Date Analyzed: 03/03/05	QC Batch #: 5350
Date Received: 03/02/05	Method: EPA 5030/8015M	

Lab #	Sample ID	Analysis	Result (ug/L)	RDL (ug/L)
28603	MW-11	TPH/Gasoline	ND	50

Date Sampled: 03/02/05	Date Analyzed: 03/03/05	QC Batch #: 5350
Date Received: 03/02/05	Method: EPA 5030/8015M	

Lab #	Sample ID	Analysis	Result (ug/L)	RDL (ug/L)
28604	MW-9	TPH/Gasoline	ND	50

Date Sampled: 03/02/05	Date Analyzed: 03/03/05	QC Batch #: 5350
Date Received: 03/02/05	Method: EPA 5030/8015M	

Lab #	Sample ID	Analysis	Result (ug/L)	RDL (ug/L)
28605	MW-5	TPH/Gasoline	750	50

Date Sampled: 03/02/05	Date Analyzed: 03/03/05	QC Batch #: 5350
Date Received: 03/02/05	Method: EPA 5030/8015M	



TPH Diesel & Motor Oil in Water

Lab #	Sample ID	Analysis	Result (ug/L)	RDL (ug/L)
28602	MW-12	TPH/Diesel	ND	50
		Motor Oil	ND	200

Date Sampled: 03/02/05	Date Extracted: 03/03/05	QC Batch #: 5351
Date Received: 03/02/05	Date Analyzed: 03/04/05	Method: EPA 3510/8015M

Lab #	Sample ID	Analysis	Result (ug/L)	RDL (ug/L)
28603	MW-11	TPH/Diesel	ND	50
		Motor Oil	ND	200

Date Sampled: 03/02/05	Date Extracted: 03/03/05	QC Batch #: 5351
Date Received: 03/02/05	Date Analyzed: 03/04/05	Method: EPA 3510/8015M

Lab #	Sample ID	Analysis	Result (ug/L)	RDL (ug/L)
28604	MW-9	TPH/Diesel	ND	50
		Motor Oil	ND	200

Date Sampled: 03/02/05	Date Extracted: 03/03/05	QC Batch #: 5351
Date Received: 03/02/05	Date Analyzed: 03/04/05	Method: EPA 3510/8015M

Lab #	Sample ID	Analysis	Result (ug/L)	RDL (ug/L)
28605	MW-5	TPH/Diesel	ND	50
		Motor Oil	ND	200

Date Sampled: 03/02/05	Date Extracted: 03/03/05	QC Batch #: 5351
Date Received: 03/02/05	Date Analyzed: 03/04/05	Method: EPA 3510/8015M



Volatile Hydrocarbons by GC/MS in Water

Lab #	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
28598	DW-3415	benzene	ND	1.0
		toluene	ND	1.0
		ethyl benzene	ND	1.0
		m,p-xylene	ND	1.0
		o-xylene	ND	1.0
		1,2-dibromoethane (EDB)	ND	1.0
		1,2-dichloroethane (EDC)	ND	1.0

Oxygenated Gasoline Additives

tert-butyl alcohol (TBA)	ND	25
methyl tert-butyl ether (MTBE)	ND	1.0
di-isopropyl ether (DIPE)	ND	1.0
ethyl tert-butyl ether (ETBE)	ND	1.0
tert-amyl methyl ether (TAME)	ND	1.0

Surrogates	Result (ug/L)	% Recovery	Acceptance Range (%)
dibromofluoromethane (20)	17.5	87.5	70 – 130
toluene-d ₈ (20)	18.8	94.0	70 – 130
4-bromofluorobenzene (20)	18.6	93.0	70 – 130

Date Sampled: 03/02/05

Date Analyzed: 03/02/05

QC Batch #: 5349

Date Received: 03/02/05

Method: EPA 8260B



Lab #	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
28599	DW-3455	benzene	ND	1.0
		toluene	ND	1.0
		ethyl benzene	ND	1.0
		m,p-xylene	ND	1.0
		o-xylene	ND	1.0
		1,2-dibromoethane (EDB)	ND	1.0
		1,2-dichloroethane (EDC)	ND	1.0

Oxygenated Gasoline Additives

tert-butyl alcohol (TBA)	ND	25
methyl tert-butyl ether (MTBE)	ND	1.0
di-isopropyl ether (DIPE)	ND	1.0
ethyl tert-butyl ether (ETBE)	ND	1.0
tert-amyl methyl ether (TAME)	ND	1.0

Surrogates	Result (ug/L)	% Recovery	Acceptance Range (%)
dibromofluoromethane (20)	17.6	88.0	70 – 130
toluene-d ₈ (20)	18.9	94.5	70 – 130
4-bromofluorobenzene (20)	18.4	92.0	70 – 130

Date Sampled: 03/02/05
Date Received: 03/02/05

Date Analyzed: 03/02/05
Method: EPA 8260B

QC Batch #: 5349



Lab #	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
28600	DW-3521	benzene	ND	1.0
		toluene	ND	1.0
		ethyl benzene	ND	1.0
		m,p-xylene	ND	1.0
		o-xylene	ND	1.0
		1,2-dibromoethane (EDB)	ND	1.0
		1,2-dichloroethane (EDC)	ND	1.0

Oxygenated Gasoline Additives

tert-butyl alcohol (TBA)	ND	25
methyl tert-butyl ether (MTBE)	ND	1.0
di-isopropyl ether (DIPE)	ND	1.0
ethyl tert-butyl ether (ETBE)	ND	1.0
tert-amyl methyl ether (TAME)	ND	1.0

Surrogates	Result (ug/L)	% Recovery	Acceptance Range (%)
dibromofluoromethane (20)	17.6	88.0	70 – 130
toluene-d ₈ (20)	19.0	95.0	70 – 130
4-bromofluorobenzene (20)	18.5	92.5	70 – 130

Date Sampled: 03/02/05
Date Received: 03/02/05

Date Analyzed: 03/02/05
Method: EPA 8260B

QC Batch #: 5349



Lab #	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
28601	DW-3450	benzene	ND	1.0
		toluene	ND	1.0
		ethyl benzene	ND	1.0
		m,p-xylene	ND	1.0
		o-xylene	ND	1.0
		1,2-dibromoethane (EDB)	ND	1.0
		1,2-dichloroethane (EDC)	ND	1.0

Oxygenated Gasoline Additives

tert-butyl alcohol (TBA)	ND	25
methyl tert-butyl ether (MTBE)	ND	1.0
di-isopropyl ether (DIPE)	ND	1.0
ethyl tert-butyl ether (ETBE)	ND	1.0
tert-amyl methyl ether (TAME)	ND	1.0

Surrogates	Result (ug/L)	% Recovery	Acceptance Range (%)
dibromofluoromethane (20)	17.4	87.0	70 – 130
toluene-d ₈ (20)	18.8	94.0	70 – 130
4-bromofluorobenzene (20)	18.6	93.0	70 – 130

Date Sampled: 03/02/05
Date Received: 03/02/05

Date Analyzed: 03/02/05
Method: EPA 8260B

QC Batch #: 5349



Lab #	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
28602	MW-12	benzene	ND	1.0
		toluene	ND	1.0
		ethyl benzene	ND	1.0
		m,p-xylene	ND	1.0
		o-xylene	ND	1.0
		1,2-dibromoethane (EDB)	ND	1.0
		1,2-dichloroethane (EDC)	ND	1.0

Oxygenated Gasoline Additives

tert-butyl alcohol (TBA)	ND	25
methyl tert-butyl ether (MTBE)	ND	1.0
di-isopropyl ether (DIPE)	ND	1.0
ethyl tert-butyl ether (ETBE)	ND	1.0
tert-amyl methyl ether (TAME)	ND	1.0

Surrogates	Result (ug/L)	% Recovery	Acceptance Range (%)
dibromofluoromethane (20)	17.4	87.0	70 – 130
toluene-d ₈ (20)	18.9	94.5	70 – 130
4-bromofluorobenzene (20)	18.5	92.5	70 – 130

Date Sampled: 03/02/05
Date Received: 03/02/05

Date Analyzed: 03/03/05
Method: EPA 8260B

QC Batch #: 5349



Lab #	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
28603	MW-11	benzene	ND	1.0
		toluene	ND	1.0
		ethyl benzene	ND	1.0
		m,p-xylene	ND	1.0
		o-xylene	ND	1.0
		1,2-dibromoethane (EDB)	ND	1.0
		1,2-dichloroethane (EDC)	ND	1.0

Oxygenated Gasoline Additives

tert-butyl alcohol (TBA)	ND	25
methyl tert-butyl ether (MTBE)	ND	1.0
di-isopropyl ether (DIPE)	ND	1.0
ethyl tert-butyl ether (ETBE)	ND	1.0
tert-amyl methyl ether (TAME)	ND	1.0

Surrogates	Result (ug/L)	% Recovery	Acceptance Range (%)
dibromofluoromethane (20)	17.6	88.0	70 – 130
toluene-d ₈ (20)	18.9	94.5	70 – 130
4-bromofluorobenzene (20)	18.6	93.0	70 – 130

Date Sampled: 03/02/05
Date Received: 03/02/05

Date Analyzed: 03/03/05
Method: EPA 8260B

QC Batch #: 5349



Lab #	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
28604	MW-9	benzene	ND	1.0
		toluene	5.5	1.0
		ethyl benzene	2.0	1.0
		m,p-xylene	8.1	1.0
		o-xylene	1.7	1.0
		1,2-dibromoethane (EDB)	ND	1.0
		1,2-dichloroethane (EDC)	ND	1.0

Oxygenated Gasoline Additives

tert-butyl alcohol (TBA)	ND	25
methyl tert-butyl ether (MTBE)	ND	1.0
di-isopropyl ether (DIPE)	ND	1.0
ethyl tert-butyl ether (ETBE)	ND	1.0
tert-amyl methyl ether (TAME)	ND	1.0

Surrogates	Result (ug/L)	% Recovery	Acceptance Range (%)
dibromofluoromethane (20)	17.4	87.0	70 – 130
toluene-d ₈ (20)	18.9	94.5	70 – 130
4-bromofluorobenzene (20)	18.5	92.5	70 – 130

Date Sampled: 03/02/05
Date Received: 03/02/05

Date Analyzed: 03/03/05
Method: EPA 8260B

QC Batch #: 5349



Lab #	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
28605	MW-5	benzene	8.3	1.0
		toluene	1.7	1.0
		ethyl benzene	6.6	1.0
		m,p-xylene	21	1.0
		o-xylene	5.0	1.0
		1,2-dibromoethane (EDB)	ND	1.0
		1,2-dichloroethane (EDC)	1.2	1.0

Oxygenated Gasoline Additives

tert-butyl alcohol (TBA)	46	25
methyl tert-butyl ether (MTBE)	ND	1.0
di-isopropyl ether (DIPE)	ND	1.0
ethyl tert-butyl ether (ETBE)	ND	1.0
tert-amyl methyl ether (TAME)	ND	1.0

Surrogates	Result (ug/L)	% Recovery	Acceptance Range (%)
dibromofluoromethane (20)	16.9	84.5	70 – 130
toluene-d ₈ (20)	18.6	93.0	70 – 130
4-bromofluorobenzene (20)	18.3	91.5	70 – 130

Date Sampled: 03/02/05
Date Received: 03/02/05

Date Analyzed: 03/03/05
Method: EPA 8260B

QC Batch #: 5349



Total Oil & Grease in Water

Lab #	Sample ID	Analysis	Result (mg/L)	RDL (mg/L)
28602	MW-12	Total Oil & Grease	ND	1.0

Date Sampled: 03/02/05	Date Extracted: 03/07/05	QC Batch #:
Date Received: 03/02/05	Date Analyzed: 03/07/05	Method: EPA 418.1M

Lab #	Sample ID	Analysis	Result (mg/L)	RDL (mg/L)
28603	MW-11	Total Oil & Grease	ND	1.0

Date Sampled: 03/02/05	Date Extracted: 03/07/05	QC Batch #: S0380
Date Received: 03/02/05	Date Analyzed: 03/07/05	Method: EPA 418.1M

Lab #	Sample ID	Analysis	Result (mg/L)	RDL (mg/L)
28604	MW-9	Total Oil & Grease	ND	1.0

Date Sampled: 03/02/05	Date Extracted: 03/07/05	QC Batch #: S0380
Date Received: 03/02/05	Date Analyzed: 03/07/05	Method: EPA 418.1M

Lab #	Sample ID	Analysis	Result (mg/L)	RDL (mg/L)
28605	MW-5	Total Oil & Grease	ND (1)	2.0

Date Sampled: 03/02/05	Date Extracted: 03/07/05	QC Batch #: S0380
Date Received: 03/02/05	Date Analyzed: 03/07/05	Method: EPA 418.1M

(1) The RDL was increased slightly due to limited sample volume.



LABORATORY QUALITY ASSURANCE REPORT

QC Batch #: 5350

Lab Project #: 5030206

Sample ID	Compound	Result (ug/L)
MB	TPH/Gas	ND
MB	MTBE	ND
MB	Benzene	ND
MB	Toluene	ND
MB	Ethyl Benzene	ND
MB	Xylenes	ND

Sample #	Sample ID	Compound	Result (ug/L)	Spike Level	% Recv.
28598	CMS	TPH/Gas		NS	
	CMS	Benzene	9.54	10.0	95.4
	CMS	Toluene	9.89	10.0	98.9
	CMS	Ethyl Benzene	10.3	10.0	103
	CMS	Xylenes	30.9	30.0	103

Sample #	Sample ID	Compound	Result (ug/L)	Spike Level	% Recv.	RPD
28598	CMSD	TPH/Gas		NS		
	CMSD	Benzene	9.61	10.0	96.1	0.74
	CMSD	Toluene	9.98	10.0	99.8	1.1
	CMSD	Ethyl Benzene	10.4	10.0	104	0.70
	CMSD	Xylenes	30.8	30.0	103	0.38

MB = Method Blank; LCS = Laboratory Control Sample; CMS = Client Matrix Spike; CMSD = Client Matrix Spike Duplicate
NS = Not Spiked; OR = Over Calibration Range; NR = No Recovery

QC Batch #: 5351Lab Project #: 5030206

Sample ID	Compound	Result (ug/L)
MB	TPH/Diesel	ND

Sample ID	Compound	Result (ug/L)	Spike Level	% Recv.
LCS	TPH/Diesel	2,230	2,730	81.7

Sample ID	Compound	Result (ug/L)	Spike Level	% Recv.	RPD
LCSD	TPH/Diesel	2,180	2,730	79.9	2.3

MB = Method Blank; LCS = Laboratory Control Sample; CMS = Client Matrix Spike; CMSD = Client Matrix Spike Duplicate
NS = Not Spiked; OR = Over Calibration Range; NR = No Recovery

QC Batch #: 5349Lab Project #: 5030206

Sample ID	Compound Name	Result (ug/L)
MB	1,1-dichloroethene	ND
MB	benzene	ND
MB	trichloroethene	ND
MB	toluene	ND
MB	chlorobenzene	ND

Surrogates	Result (ug/L)	% Recovery	Acceptance Range (%)
dibromofluoromethane (20)	17.8	89.0	70 - 130
toluene-d ₈ (20)	18.8	94.0	70 - 130
4-bromofluorobenzene (20)	18.2	91.0	70 - 130



Sample #	Sample ID	Compound Name	Result (ug/L)	Spike Level	% Recv.
28588	CMS	1,1-dichloroethene	25.3	25.0	101
	CMS	benzene	25.7	25.0	103
	CMS	trichloroethene	21.1	25.0	84.4
	CMS	toluene	24.4	25.0	97.6
	CMS	chlorobenzene	25.1	25.0	100

Surrogates	Result (ug/L)	% Recovery	Acceptance Range (%)
dibromofluoromethane (20)	17.8	89.0	70 – 130
toluene-d ₈ (20)	19.1	95.5	70 – 130
4-bromofluorobenzene (20)	18.5	92.5	70 – 130

Sample #	Sample ID	Compound Name	Result (ug/L)	Spike Level	% Recv.	RPD
28588	CMSD	1,1-dichloroethene	25.7	25.0	103	1.6
	CMSD	benzene	25.7	25.0	103	0.0
	CMSD	trichloroethene	21.7	25.0	86.8	2.8
	CMSD	toluene	25.0	25.0	100	2.4
	CMSD	chlorobenzene	25.9	25.0	104	3.1

Surrogates	Result (ug/L)	% Recovery	Acceptance Range (%)
dibromofluoromethane (20)	17.6	88.0	70 – 130
toluene-d ₈ (20)	19.1	95.5	70 – 130
4-bromofluorobenzene (20)	18.5	92.5	70 – 130

MB = Method Blank; LCS = Laboratory Control Sample; CMS = Client Matrix Spike; CMSD = Client Matrix Spike Duplicate
NS = Not Spiked; OR = Over Calibration Range; NR = No Recovery

QC Batch #: S0380Lab Project #: 5030206

Sample ID	Compound	Result (mg/L)
MB	10/30W Motor Oil	ND

Sample ID	Compound	Result (mg/L)	Spike Level	% Recv.
CMS	10/30W Motor Oil	19.2	25.0	91.4

Sample ID	Compound	Result (mg/L)	Spike Level	% Recv.	RPD
CMSD	10/30W Motor Oil	21.2	25.0	94.2	3.0

MB = Method Blank; LCS = Laboratory Control Sample; CMS = Client Matrix Spike; CMSD = Client Matrix Spike Duplicate
NS = Not Spiked; OR = Over Calibration Range; NR = No Recovery



Analytical Sciences



Analytical Sciences

P.O. Box 750336, Petaluma, CA 94975-0336
110 Liberty Street, Petaluma, CA 94952

(707) 769-3128
Fax (707) 769-8093

CLIENT INFORMATION

COMPANY NAME: WINZLER & KELLY CONSULTING ENGINEERS

ADDRESS: 495 TESCONI CIRCLE, SUITE 9

SANTA ROSA, CA 95401-4696

CONTACT: Sergio - Rosales, Pen - Guevara

PHONE#: (707) 523-1010

FAX #: (707) 527-8679

CHAIN OF CUSTODY

LAB PROJECT NUMBER: 5030206

WINZLER & KELLY PROJECT NAME: W. G. S. S.

WINZLER & KELLY PROJECT NUMBER: 04259801.001

TURNAROUND TIME (check one)

MOBILE LAB

SAME DAY

48 HOURS

5 DAYS

24 HOURS

72 HOURS

NORMAL

GLOBAL ID: X Y N

COOLER TEMPERATURE

Control °C

COC

PAGE 1 OF 1

ITEM	CLIENT SAMPLE ID.	DATE SAMPLED	TIME	MATRIX	# CONT.	FRESH YES/NO	TPH GAS / DIESEL / MOTOR OIL EPA 8015M/8060	TPH DIESEL / MOTOR OIL EPA 8015M	VOLATILE HYDROCARBONS EPA 8260B (FULL LIST)	BTEX & OXYGENATES + PB SCAVENGERS EPA 8260B	OXYGENATED FUEL ADDITIVES EPA 8260M	CHLORINATED SOLVENTS EPA 8010 / EPA 8260B	SEMI-VOLATILE HYDROCARBONS EPA 8270	TRPH / TOG SM 8520F / EPA 418.1M	PESTICIDES / PCB'S EPA 8081 / 8141 / 8082	CAM 17 METALS / 5 LUFT METALS	TOTAL LEAD	COMMENTS	LAB SAMPLE #
1	DN-3415	3/16/05	13:49	W	4	Y	X			X									28598
2	DN-3435	3/16/05	14:03	W	4	Y	X			X									28599
3	DN-3521	3/16/05	14:18	W	4	Y	X			X									28600
4	DN-3450	3/16/05	14:28	W	4	Y	X			X									28601
5	MAN-12	3/16/05	12:17	W	4	Y	X			X									28602
6	MAN-11	3/16/05	12:34	W	4	Y	X			X									28603
7	MAN-9	3/16/05	12:40	W	4	Y	X			X									28604
8	MAN-5	3/16/05	11:47	W	4	Y	X			X									28605
9																			
10																			
11																			

SIGNATURES

SAMPLED BY:

Pen Guevara

RECEIVED BY LABORATORY:

W. G. S. S.

RELINQUISHED BY: D. Williams

DATE 3/16/05 TIME 15:10

SIGNATURE

DATE 3/24/05 TIME 15:15

Appendix C

GeoTracker Upload Verifications

Electronic Submittal Information

[Main Menu](#) | [View/Add Facilities](#) | [Upload EDF](#) | [Check EDF](#)

Your EDF file has been successfully uploaded!

Confirmation Number: 2185531020

Date/Time of Submittal: 8/24/2004 10:14:25 AM

Facility Global ID: T0609700531

Facility Name: John's Auto Repair (former)

Submittal Title: Quarterly Groundwater Report, Q2 '04, EDF 4043009

Submittal Type: GW Monitoring Report

Electronic Submittal Information

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Your EDF file has been successfully uploaded!

Confirmation Number: 4275427281

Date/Time of Submittal: 11/5/2004 1:31:05 PM

Facility Global ID: T0609700531

Facility Name: John's Auto Repair (former)

Submittal Title: Quarterly Groundwater Monitoring Report, 2nd Qtr 04, EDF 4050606

Submittal Type: GW Monitoring Report

Click [here](#) to view the detections report for this upload.

Electronic Submittal Information

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Your EDF file has been successfully uploaded!

Confirmation Number: 3855615973

**Date/Time of
Submittal:** 11/5/2004 1:33:53 PM

Facility Global ID: T0609700531

Facility Name: John's Auto Repair (former)

Submittal Title: Quarterly Groundwater Monitoring Report, 3rd Quater 2004, EDF
4073004

Submittal Type: GW Monitoring Report

Electronic Submittal Information

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UPLOADING A GEO_WELL FILE

Processing is complete. No errors were found!
Your file has been successfully submitted!

Submittal Title: Well Measurement File, 1st Qtr 2005,
Wiggins

Submittal Date/Time: 3/15/2005 2:39:16 PM

Confirmation
Number: 8740208268

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Logged in as WINZLER (AUTH_RP)

CONTACT SITE [ADMINISTRATOR](#).